Test Type: CHRONIC

Route: DOSED WATER

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH **AVERAGE SEVERITY GRADES[b]**

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Time Report Reqsted: 10:38:19

Lab: SRI

Species/Strain: RATS/F 344

F2_R2

C Number: C20114

Lock Date: 10/04/2005

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC 25020 NATD 25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

TDMSE Version: 1.8.0

Route: DOSED WATER

Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19
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Date Report Regsted: 10/04/2007

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Disposition Summary					
Animals Initially in Study	50	50	50	50	50
Early Deaths				_	
Moribund Sacrifice	16	15	16	9	16
Natural Death Survivors	6	5	3	5	4
Terminal Sacrifice	28	30	30	36	29
Animals Examined Microscopically	50	50 50	49	50 50	49
,,					
ALIMENTARY SYSTEM					
Intestine Large, Cecum	(45)	(48)	(46)	(47)	(48)
Edema	(-7	1 [2.0]	1 [2.0]	2 [2.5]	2 [2.0]
Erosion				1 [3.0]	
Ulcer			1 [3.0]		1 [1.0]
Intestine Large, Colon	(47)	(49)	(49)	(48)	(48)
Edema	1 [2.0]				
Infiltration Cellular, Lymphocyte	(40)	(15)	(4-)	(12)	1 [2.0]
Intestine Small, Duodenum	(48)	(48)	(47)	(46)	(48)
Erosion	1 [2.0]		0 [4 0]	1 [2.0]	47 [4 5]
Infiltration Cellular, Histiocyte Ulcer		1 [3.0]	6 [1.2]	36 [1.1]	47 [1.5]
Intestine Small, Ileum	(45)	(46)	(46)	(45)	(47)
Hyperplasia	1 [2.0]	(40)	(40)	(40)	(47)
Lymphoid Tissue, Hyperplasia	10 [2.3]	11 [1.8]	9 [2.0]	7 [1.9]	10 [2.0]
Intestine Small, Jejunum	(44)	(47)	(45)	(46)	(46)
Hyperplasia	(/	(,	(10)	(1-5)	1 [2.0]
Epithelium, Hyperplasia	1 [3.0]				1
Liver	(50)	(50)	(49)	(50)	(49)
Angiectasis	1 [2.0]	1 [2.0]			
Basophilic Focus	22	28	29	32	30
Clear Cell Focus	23	19	16	29	25
Degeneration, Cystic	7 [2.0]	3 [1.7]	2 [2.0]		2 [1.0]
Eosinophilic Focus	10	5	4	8	9
Fatty Change	12 [3.0]	10 [2.4]	10 [2.5]	8 [2.9]	12 [2.5]
Hematopoietic Cell Proliferation	1 [1.0]	0.00.01	3 [1.7]	4.54.01	0.14.01
Hemorrhage		2 [2.0]	1 [1.0]	4 [1.8]	3 [1.3]

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Hepatodiaphragmatic Nodule	5	6	6	7	10	
Infiltration Cellular, Histiocyte	1 [1.0]	v	2 [1.0]	5 [1.4]	34 [1.4]	
Inflammation, Chronic	19 [1.1]	25 [1.2]	21 [1.3]	28 [1.1]	26 [1.3]	
Mixed Cell Focus	11	7	5	13	10	
Necrosis	3 [1.3]	3 [1.3]	_	2 [1.0]	1 [1.0]	
Regeneration	2	2		_[]	. []	
Syncytial Alteration	_	_			1 [2.0]	
Thrombosis	1 [2.0]				. [=.0]	
Bile Duct, Hyperplasia	47 [1.9]	38 [1.9]	33 [1.6]	22 [1.8]	15 [1.7]	
Centrilobular, Necrosis	8 [2.6]	1 [1.0]	3 [1.7]	2 [1.5]	5 [2.0]	
Hepatocyte, Hyperplasia, Focal	رح.ن	1 [3.0]	~ [· · ·]	-[]	o [=.0]	
Intima, Vein, Hyperplasia		. [0.0]			1 [2.0]	
Kupffer Cell, Pigmentation	2 [1.5]		1 [3.0]		. [2.0]	
Mesentery	(12)	(4)	(15)	(14)	(15)	
Accessory Spleen	1	(7)	1	1	1	
Hemorrhage	•		•	•	1 [3.0]	
Fat, Necrosis	11 [3.0]	3 [3.7]	10 [2.9]	12 [3.0]	13 [3.0]	
Oral Mucosa	(50)	(50)	(49)	(50)	(49)	
Pancreas	(50)	(50)	(49)	(50)	(49)	
Atrophy	25 [1.8]	16 [2.1]	24 [2.0]	24 [1.7]	31 [2.0]	
Cyst	9 [3.0]	7 [3.1]	9 [3.0]	9 [3.0]	12 [3.0]	
Acinus, Cytoplasmic Alteration	3 [3.0]	7 [0.1]	1 [3.0]	3 [3.0]	3 [3.0]	
Acinus, Hyperplasia, Focal	6 [2.5]	10 [1.8]	9 [2.2]	7 [2.4]	9 [1.9]	
Salivary Glands	(50)	(50)	(49)	(49)	(49)	
Atrophy	3 [1.3]	1 [1.0]	2 [1.0]	4 [1.3]	3 [2.0]	
Necrosis	5 [1.5]	1 [1.0]	1 [2.0]	∓ [1.0]	2 [2.0]	
Duct, Cyst		1 [4.0]	ا رکان		ک اِک.∪]	
Stomach, Forestomach	(50)	(50)	(49)	(50)	(49)	
Edema	3 [2.7]	(30)	(+3)	3 [3.0]	3 [2.0]	
Erosion	ا کا لک ۱			3 [3.0] 1 [1.0]	3 [2.0] 1 [1.0]	
Inflammation, Chronic Active		1 [3.0]		1 [3.0]	1 [3.0]	
Ulcer	1 [4.0]	3 [2.7]	3 [3.0]	2 [4.0]	1 [3.0]	
Epithelium, Hyperplasia	1 [2.0]	2 [2.0]	2 [2.0]	5 [2.2]	1 [3.0]	
Stomach, Glandular	(50)	(50)	2 [2.0] (49)	(50)	(49)	
Cyst	(30)	(30)	(4 3)	(30)	1	
Edema		1 [2.0]		1 [3.0]	1	
Erosion	8 [2.6]	4 [2.8]	6 [2.3]	5 [2.0]	2 [1.0]	
Hyperplasia	8 [1.1]	4 [2.6] 4 [1.0]	9 [1.1]	12 [1.1]	12 [1.1]	
Infiltration Cellular, Lymphocyte	0 [1.1]	4 [1.∪]	ə [1.1]	14 [1.1]	1 [2.0]	
minimation Celiulai, Lymphocyte	1 [3.0]	3 [3.0]	1 [3.0]	1 [2.0]	۱ [۲.۵]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Epithelium, Glands, Dilatation				1 [2.0]	
Glands, Dilatation	1 [2.0]		1 [2.0]	. [=.4]	1 [2.0]
Tongue	(49)	(50)	(47)	(49)	(48)
Fibrosis					1 [2.0]
Hemorrhage	1 [2.0]				1 [1.0]
Hemorrhage, Chronic	0.54.03	5 [4 0]	0.14.01	0.14.01	1 [1.0]
Inflammation, Chronic Epithelium, Hyperplasia	2 [1.0]	5 [1.2]	6 [1.0]	6 [1.0]	3 [1.0]
Vein, Thrombosis	2 [2.5]			2 [1.0]	1 [2.0] 1 [3.0]
Tooth	(0)	(0)	(0)	(1)	(4)
Malformation	(0)	(0)	(0)	(1)	1
ARDIOVASCULAR SYSTEM					
Blood Vessel	(0)	(4)	(0)	(0)	(3)
Dilatation	(50)	(=0)	(40)	(=0)	1 [3.0]
Heart	(50)	(50)	(49)	(50)	(49)
Cardiomyopathy Inflammation, Chronic	46 [2.3]	44 [2.5]	44 [2.3]	45 [2.5]	45 [1.8] 1 [2.0]
Thrombosis	5 [3.6]	3 [3.3]	1 [2.0]	2 [3.5]	1 [2.0]
NDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(49)	(50)	(49)
Accessory Adrenal Cortical Nodule	17 [3.0]	18 [3.0]	13 [3.0]	17 [3.0]	8 [3.0]
Angiectasis	1 [3.0]	10 [0.0]	1 [3.0]	1 [3.0]	0 [0.0]
Degeneration, Fatty	7 [2.1]	10 [1.5]	9 [1.7]	7 [1.4]	11 [1.5]
Hyperplasia, Focal	2 [2.0]	1 [2.0]	6 [1.2]		3 [1.0]
Hyperplasia, Diffuse	1 [3.0]		1 [3.0]		
Hypertrophy	1 [3.0]				
Hypertrophy, Focal		2 [1.5]	4 [4 0]	4 [1.5]	4 [2.0]
Necrosis Adrenal Medulla	(49)	2 [3.5] (50)	1 [4.0] (49)	1 [3.0]	1 [3.0] (49)
Hyperplasia	(49) 12 [1.4]	(50) 11 [1.6]	(4 9) 17 [1.8]	(50) 9 [1.6]	(49) 14 [1.6]
Islets, Pancreatic	(50)	(50)	(49)	9 [1.6] (50)	(49)
Hyperplasia	2 [2.0]	(30)	(40)	1 [3.0]	1 [2.0]
Parathyroid Gland	(46)	(46)	(46)	(49)	(48)
Hyperplasia	(/	(/	(/	(/	1 [2.0]
Pituitary Gland	(50)	(50)	(49)	(50)	(49)

a - Number of animals examined microscopically at site and number of animals with lesion

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Test Type: CHRONIC

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Sodium dichromate dihydrate (VI)

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Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Pars Distalis, Angiectasis	2 [3.5]	3 [3.3]	2 [3.0]	5 [2.4]	3 [3.0]	
Pars Distalis, Cyst	3 [3.0]	4 [3.0]	7 [3.0]	5 [3.2]	5 [3.0]	
Pars Distalis, Cytoplasmic Alteration,	2 [2.0]	2 [2.0]	3 [2.0]	2 [1.0]	2 [2.0]	
Focal						
Pars Distalis, Hyperplasia		1 [3.0]		1 [2.0]	1 [3.0]	
Pars Distalis, Hyperplasia, Focal	12 [1.6]	6 [2.0]	12 [1.9]	14 [2.1]	11 [2.1]	
Pars Intermedia, Angiectasis	1 [2.0]	4 70 01	0.10.01	1 [2.0]	2 [2.0]	
Pars Intermedia, Cyst	1 [3.0]	1 [3.0]	2 [3.0]	1 [3.0]	1 [3.0]	
Pars Intermedia, Metaplasia, Atypical		1 [3.0]		4 [0 0]		
Pars Intermedia, Pars Nervosa,				1 [3.0]		
Metaplasia, Atypical Thyroid Gland	(50)	(50)	(49)	(50)	(49)	
Ultimobranchial Cyst	(50)	(30)	(49) 1 [3.0]	(30)	2 [3.0]	
C-cell, Hyperplasia	11 [1.6]	13 [1.4]	18 [1.3]	14 [1.5]	2 [3.0] 5 [1.2]	
Follicle, Cyst	1 [3.0]	1 [3.0]	10 [1.5]	14 [1.0]	2 [3.5]	
ENERAL BODY SYSTEM None						
None						
None ENITAL SYSTEM	(50)	(50)	(40)	(50)	(40)	
None ENITAL SYSTEM Epididymis	(50)	(50)	(49)	(50)	(49)	
None ENITAL SYSTEM Epididymis Granuloma Sperm	2 [2.5]	(50)			1 [3.0]	
None ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic	2 [2.5] 1 [2.0]	, ,	2 [2.0]	2 [2.5]	1 [3.0] 2 [2.0]	
None ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland	2 [2.5] 1 [2.0] (50)	(50)			1 [3.0] 2 [2.0] (49)	
None ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst	2 [2.5] 1 [2.0] (50) 1 [3.0]	(50) 1 [3.0]	2 [2.0] (49)	2 [2.5]	1 [3.0] 2 [2.0] (49) 1 [3.0]	
None ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0]	(50) 1 [3.0] 1 [1.0]	2 [2.0] (49) 2 [3.0]	2 [2.5] (50)	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0]	
None ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0] 16 [2.3]	(50) 1 [3.0] 1 [1.0] 11 [2.4]	2 [2.0] (49) 2 [3.0] 13 [2.2]	2 [2.5] (50) 17 [2.2]	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0] 16 [2.3]	
None ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia Inflammation, Chronic Prostate Cyst	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0]	(50) 1 [3.0] 1 [1.0]	2 [2.0] (49) 2 [3.0]	2 [2.5] (50)	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0]	
None ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia Inflammation, Chronic Prostate Cyst Inflammation, Chronic	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0] 16 [2.3] (50)	(50) 1 [3.0] 1 [1.0] 11 [2.4] (50) 17 [2.4]	2 [2.0] (49) 2 [3.0] 13 [2.2] (49) 1 [3.0] 14 [2.3]	2 [2.5] (50) 17 [2.2] (50) 8 [2.1]	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0] 16 [2.3] (49)	
None ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia Inflammation, Chronic Prostate Cyst Inflammation, Chronic Epithelium, Hyperplasia	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0] 16 [2.3] (50) 19 [2.3] 7 [1.3]	(50) 1 [3.0] 1 [1.0] 11 [2.4] (50) 17 [2.4] 11 [1.1]	2 [2.0] (49) 2 [3.0] 13 [2.2] (49) 1 [3.0] 14 [2.3] 7 [1.6]	2 [2.5] (50) 17 [2.2] (50) 8 [2.1] 7 [1.4]	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0] 16 [2.3] (49) 14 [2.1] 8 [1.1]	
ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia Inflammation, Chronic Prostate Cyst Inflammation, Chronic Epithelium, Hyperplasia Seminal Vesicle	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0] 16 [2.3] (50)	(50) 1 [3.0] 1 [1.0] 11 [2.4] (50) 17 [2.4]	2 [2.0] (49) 2 [3.0] 13 [2.2] (49) 1 [3.0] 14 [2.3]	2 [2.5] (50) 17 [2.2] (50) 8 [2.1] 7 [1.4] (50)	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0] 16 [2.3] (49)	
ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia Inflammation, Chronic Prostate Cyst Inflammation, Chronic Epithelium, Hyperplasia Seminal Vesicle Inflammation, Chronic	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0] 16 [2.3] (50) 19 [2.3] 7 [1.3] (50)	(50) 1 [3.0] 1 [1.0] 11 [2.4] (50) 17 [2.4] 11 [1.1] (50)	2 [2.0] (49) 2 [3.0] 13 [2.2] (49) 1 [3.0] 14 [2.3] 7 [1.6] (49)	2 [2.5] (50) 17 [2.2] (50) 8 [2.1] 7 [1.4] (50) 1 [4.0]	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0] 16 [2.3] (49) 14 [2.1] 8 [1.1] (49)	
ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia Inflammation, Chronic Prostate Cyst Inflammation, Chronic Epithelium, Hyperplasia Seminal Vesicle Inflammation, Chronic Testes	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0] 16 [2.3] (50) 19 [2.3] 7 [1.3] (50)	(50) 1 [3.0] 1 [1.0] 11 [2.4] (50) 17 [2.4] 11 [1.1] (50)	2 [2.0] (49) 2 [3.0] 13 [2.2] (49) 1 [3.0] 14 [2.3] 7 [1.6] (49)	2 [2.5] (50) 17 [2.2] (50) 8 [2.1] 7 [1.4] (50) 1 [4.0] (50)	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0] 16 [2.3] (49) 14 [2.1] 8 [1.1] (49) (49)	
ENITAL SYSTEM Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia Inflammation, Chronic Prostate Cyst Inflammation, Chronic Epithelium, Hyperplasia Seminal Vesicle Inflammation, Chronic	2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0] 16 [2.3] (50) 19 [2.3] 7 [1.3] (50)	(50) 1 [3.0] 1 [1.0] 11 [2.4] (50) 17 [2.4] 11 [1.1] (50)	2 [2.0] (49) 2 [3.0] 13 [2.2] (49) 1 [3.0] 14 [2.3] 7 [1.6] (49)	2 [2.5] (50) 17 [2.2] (50) 8 [2.1] 7 [1.4] (50) 1 [4.0]	1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0] 16 [2.3] (49) 14 [2.1] 8 [1.1] (49)	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
IEMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(50)	(49)	(50)	(49)	
Hemorrhage	1 [4.0]					
Hyperplasia	4 [3.0]	12 [3.1]	7 [2.9]	7 [2.7]	6 [3.0]	
Myelofibrosis	2 [2.5]			1 [2.0]	2 [3.0]	
Lymph Node	(14)	(7)	(6)	(11)	(9)	
Deep Cervical, Ectasia					2 [3.5]	
Deep Cervical, Hyperplasia, Lymphoid					2 [2.0]	
Mediastinal, Ectasia	2 [3.0]	1 [4.0]		1 [4.0]	1 [3.0]	
Mediastinal, Hemorrhage	1 [2.0]	2 [1.5]	1 [2.0]	1 [2.0]	1 [1.0]	
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]	1 [2.0]	1 [3.0]	3 [2.7]	2 [2.5]	
Mediastinal, Pigmentation		- •	1 [2.0]			
Lymph Node, Mandibular	(0)	(0)	(5)	(2)	(2)	
Ectasia	()	. ,	1 [2.0]	1 [3.0]	2 <u>[</u> 2.5]	
Lymph Node, Mesenteric	(49)	(50)	(49)	(50)	(49)	
Hemorrhage	2 [1.5]	7 [1.1]	9 [1.3]	8 [1.1]	17 [1.3]	
Hyperplasia, Lymphoid	1 [2.0]	6 [2.2]	2 [2.0]	1 [2.0]		
Infiltration Cellular, Histiocyte	13 [2.0]	11 [1.5]	30 [1.9]	39 [2.1]	41 [2.1]	
Lymph Node, Pancreatic	(32)	(34)	(34)	(36)	(33)	
Congestion	()	,	1 [3.0]	,	,	
Ectasia	1 [4.0]	1 [3.0]	1 [3.0]			
Hemorrhage		3 [1.0]	4 [2.8]	2 [1.5]	1 [1.0]	
Hyperplasia, Lymphoid					1 [2.0]	
Infiltration Cellular, Histiocyte	17 [2.0]	22 [1.6]	17 [2.0]	17 [2.1]	25 [2.1]	
Pigmentation	1	r -1	1 [2.0]	1 [2.0]	• 1	
Spleen	(50)	(50)	(49)	(50)	(49)	
Accessory Spleen	1	(/	2	1	(- <i>)</i>	
Fibrosis	2 [2.5]	3 [2.3]	2 [2.0]	1 [3.0]		
Hematopoietic Cell Proliferation	18 [1.9]	25 [1.8]	20 [1.9]	20 [1.8]	16 [2.0]	
Hemorrhage	[]	[]	1 [4.0]	1 [3.0]	1 [2.0]	
Metaplasia, Lipocyte	1 [2.0]		. []	. []	· [1	
Necrosis	4 [2.8]		4 [3.8]	2 [3.0]		
Pigmentation	3 [2.7]	2 [3.5]	1 [4.0]	= [2.0]	3 [3.3]	
Lymphoid Follicle, Atrophy	1 [3.0]	- [0:0]	. []		0 [0.0]	
Lymphoid Follicle, Hyperplasia	. [0.0]	1 [2.0]				
Thymus	(48)	(50)	(46)	(49)	(47)	
Atrophy	(. •)	1 [3.0]	1 [4.0]	()	1 [3.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
INTEGUMENTARY SYSTEM						
Mammary Gland Hyperplasia	(50) 25 [2.6]	(49) 17 [2.4]	(48) 19 [2.9]	(50) 11 [2.2]	(49) 14 [2.6]	
Inflammation, Granulomatous Skin Angiectasis	(50)	(50)	(49)	1 [3.0] (50) 1 [4.0]	(49) 1 [4.0]	
Cyst Cyst Epithelial Inclusion Edema	1 [3.0] 5	3	2 1 [3.0]	1 [4.0] 3	6	
Hyperkeratosis Epidermis, Hyperplasia	5 [3.0]	2 [2.5]	1 [3.0] 1 [3.0]	4 [2.5] 1 [2.0]	1 [2.0]	
MUSCULOSKELETAL SYSTEM						
Bone Cranium, Osteopetrosis	(50) 1 [2.0]	(50)	(49) 2 [2.5]	(50) 1 [2.0]	(49)	
Femur, Osteopetrosis Skeletal Muscle Atrophy	(3)	(2)	(2)	(0)	1 [3.0] (1) 1 [1.0]	
NERVOUS SYSTEM						
Brain Compression Hemorrhage	(50) 7 [3.1] 1 [1.0]	(50) 6 [3.3]	(49) 9 [3.4]	(50) 3 [3.0]	(49) 3 [3.3]	
Hydrocephalus Peripheral Nerve Atrophy	(4)	1 [2.0] (6) 1 [1.0]	(5)	(2)	1 [2.0] (5)	
Spinal Cord Vacuolization Cytoplasmic	(4) 1 [3.0]	(6)	(5)	(2)	(5)	
RESPIRATORY SYSTEM						
Lung Edema	(50) 1 [2.0]	(50)	(49)	(50)	(49)	
Foreign Body Hemorrhage	10 [1.1]	7 [1.1]	7 [1.3]	6 [1.3]	1 8 [1.4]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Infiltration Cellular, Histiocyte	28 [1.4]	27 [1.1]	32 [1.0]	29 [1.1]	33 [1.1]
Inflammation, Suppurative				1 [1.0]	1 [1.0]
Inflammation, Granulomatous		1 [3.0]			
Inflammation, Chronic	1 [1.0]			1 [1.0]	1 [3.0]
Metaplasia, Osseous	4 [4 0]	1 [1.0]	1 [2.0]	1 [1.0]	1 [1.0]
Thrombosis	1 [1.0]	1 [2.0]	4 [0 5]	1 [1.0]	5 [4 4]
Alveolar Epithelium, Hyperplasia Alveolar Epithelium, Metaplasia, Squamous	11 [1.8]	6 [1.7]	4 [2.5] 1 [3.0]	8 [1.5]	5 [1.4]
Nose	(50)	(50)	(49)	(50)	(49)
Foreign Body	`9 ´	11	`9 ´	15	`1 ´
Hemorrhage		1 [3.0]			
Inflammation, Chronic	8 [1.6]	11 [1.6]	8 [1.8]	16 [2.1]	7 [1.4]
Thrombosis	1 [4.0]				
Nasolacrimal Duct, Cyst				2 [3.5]	1 [3.0]
Respiratory Epithelium, Hyperplasia	5 [1.6]	5 [1.6]	4 [1.8]	11 [1.8]	4 [1.5]
Respiratory Epithelium, Metaplasia, Squamous		1 [2.0]		3 [2.3]	1 [1.0]
PECIAL SENSES SYSTEM					
Eye	(50)	(50)	(49)	(50)	(49)
Cataract	1 [2.0]	3 [3.0]	2 [3.0]	1 [3.0]	3 [3.0]
Hemorrhage					1 [3.0]
Inflammation, Chronic		1 [1.0]			3 [3.0]
Cornea, Hyperplasia					1 [2.0]
Retina, Degeneration	2 [3.0]	3 [2.7]	4 [2.8]	2 [3.0]	4 [3.5]
Harderian Gland	(50)	(50)	(49)	(50)	(49)
Inflammation, Chronic	2 [2.5]	1 [2.0]			
Pigmentation					1 [4.0]
RINARY SYSTEM					
Kidney	(50)	(50)	(49)	(50)	(49)
Cyst	(30)	2 [3.0]	1 [3.0]	4 [3.0]	1 [3.0]
Hydronephrosis		- [0.0]	. [0.0]	. [0.0]	1 [3.0]
1 1701011601110313					L3
				1 [2.0]	
Infarct Infiltration Cellular, Lipocyte			1 [3.0]	1 [2.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Nephropathy	45 [1.8]	43 [2.1]	45 [2.0]	43 [1.5]	41 [1.6]	
Renal Tubule, Accumulation, Hyaline Droplet			2 [3.0]			
Renal Tubule, Dilatation			3 [2.7]		1 [2.0]	
Renal Tubule, Hyperplasia				2 [1.0]		
Renal Tubule, Necrosis	2 [1.0]	1 [3.0]	1 [2.0]	1 [2.0]	1 [3.0]	
Renal Tubule, Pigmentation	5 [3.0]	1 [2.0]	1 [3.0]		3 [2.7]	
Transitional Epithelium, Hyperplasia			1 [3.0]			
Urinary Bladder	(50)	(50)	(49)	(50)	(49)	
Calculus Micro Observation Only			1			
Edema			1 [3.0]			
Hemorrhage		1 [3.0]	1 [2.0]			
Inflammation, Chronic			1 [3.0]			
Necrosis		1 [3.0]			4 50 01	
Transitional Epithelium, Hyperplasia		1 [2.0]			1 [2.0]	

*** END OF MALE ***

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

4 [2.0]

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Disposition Summary						
Animals Initially in Study	50	50	50	50	50	
Early Deaths						
Moribund Sacrifice	12	15	9	10	18	
Natural Death	5	3	9	4	1	
Survivors						
Natural Death	1	00	00	20	0.4	
Terminal Sacrifice	32	32	32	36	31	
Animals Examined Microscopically	50	50	50	50	50	
ALIMENTARY SYSTEM						
Intestine Large, Cecum	(46)	(47)	(48)	(47)	(50)	
Edema	2 [2.0]	1 [2.0]	1 [2.0]	` '	1 [2.0]	
Hemorrhage			1 [2.0]			
Intestine Large, Colon	(49)	(49)	(49)	(48)	(50)	
Intestine Small, Duodenum	(46)	(49)	(48)	(46)	(50)	
Infiltration Cellular, Histiocyte	,	,	1 [1.0]	30 [1.0]	47 [1.2]	
Intestine Small, Ileum	(45)	(47)	(44)	(47)	(50)	
Lymphatic, Hyperplasia	, ,	,	,	1 [3.0]	,	
Lymphoid Tissue, Hyperplasia	16 [1.8]	10 [1.7]	8 [1.9]	6 [1.7]	12 [1.3]	
Intestine Small, Jejunum	(46)	(46)	(44)	(45)	(49)	
Liver	(50)	(50)	(50)	(50)	(50)	
Angiectasis	1 [2.0]	4 [2.5]	2 [2.5]			
Basophilic Focus	45	41	44	47	43	
Clear Cell Focus	7	5	7	20	7	
Eosinophilic Focus	5	5	5	3	3	
Fatty Change	3 [3.3]	7 [3.6]	10 [2.5]	13 [2.5]	16 [2.8]	
Hematopoietic Cell Proliferation	1 [1.0]	2 [1.5]		3 [1.3]		
Hemorrhage		1 [3.0]	1 [1.0]	1 [2.0]		
Hepatodiaphragmatic Nodule	5	3	9	10	9	
Infiltration Cellular, Histiocyte	1 [1.0]	5 [1.0]	21 [1.3]	42 [2.0]	47 [2.6]	
Inflammation, Chronic	12 [1.3]	21 [1.2]	28 [1.3]	35 [1.6]	39 [2.1]	
Mixed Cell Focus	9	6	10	20	18	
Necrosis	5 [1.2]	7 [1.9]	4 [1.0]		1 [1.0]	
Regeneration		1	1			

a - Number of animals examined microscopically at site and number of animals with lesion

2 [2.0]

Bile Duct, Hyperplasia

5 [1.2]

3 [1.7]

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Centrilobular, Necrosis Hepatocyte, Syncytial Alteration	4 [2.0]	2 [2.0]	1 [3.0]	2 [2.0] 1 [1.0]	1 [2.0]
Kupffer Cell, Pigmentation	1 [2.0]	1 [2.0]			. [===]
Lymphatic, Infiltration Cellular				1 [2.0]	
Mesentery	(11)	(13)	(12)	(15)	(10)
Accessory Spleen		1		1	1
Fat, Necrosis	11 [2.5]	10 [3.4]	11 [2.5]	12 [2.8]	9 [2.9]
Oral Mucosa	(50)	(50)	(50)	(50)	(50)
Pancreas	(50)	(50)	(50)	(50)	(50)
Atrophy	6 [1.7]	12 [1.6]	11 [1.5]	9 [1.4]	5 [1.6]
Cyst	2 [3.0]	4 [3.0]	3 [3.0]	6 [3.0]	4 [3.0]
Acinus, Cytoplasmic Alteration					3 [3.0]
Acinus, Hyperplasia, Focal	1 [1.0]		1 [3.0]		1 [1.0]
Salivary Glands	(50)	(50)	(50)	(50)	(50)
Atrophy	9 [1.3]	7 [1.4]	10 [1.2]	17 [1.4]	17 [2.1]
Fibrosis		1 [1.0]			
Vacuolization Cytoplasmic		1 [2.0]			
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Edema	1 [3.0]	3 [2.0]	1 [3.0]	2 [3.5]	2 [3.0]
Erosion			1 [2.0]	1 [1.0]	1 [3.0]
Inflammation, Chronic Active					1 [3.0]
Ulcer	2 [3.5]	3 [2.3]	2 [3.5]	2 [4.0]	3 [3.3]
Epithelium, Hyperplasia	2 [2.5]	3 [2.0]	4 [2.8]	4 [2.0]	4 [2.8]
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Edema	,	,	1 [3.0]	1 [2.0]	1 [2.0]
Erosion	2 [2.5]	3 [2.7]	2 [2.0]	1 [3.0]	5 [2.2]
Hyperplasia	4 [1.0]	6 [1.0]	4 [1.3]	7 [1.0]	4 [1.3]
Inflammation					1 [2.0]
Ulcer	1 [2.0]	2 [2.5]	1 [3.0]	1 [2.0]	2 [2.5]
Glands, Dilatation			1 [2.0]		
Tongue [*]	(45)	(49)	(48)	(48)	(48)
Granuloma	,	` '	` '	` '	2
Hemorrhage		1 [1.0]			1 [1.0]
Inflammation, Chronic	8 [1.0]	3 [1.0]	4 [1.0]	14 [1.0]	12 [1.1]
Ulcer		- 1 -1	r -1	r -1	3 [2.0]
Epithelium, Hyperplasia	1 [2.0]	1 [4.0]	1 [1.0]		- []

CARDIOVASCULAR SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Heart	(50)	(50)	(50)	(50)	(50)	
Cardiomyopathy	27 [1.7]	32 [2.0]	35 [1.5]	33 [1.5]	28 [1.3]	
Inflammation, Chronic		1 [3.0]				
Necrosis			1 [3.0]			
Thrombosis	1 [3.0]	1 [3.0]	2 [2.5]	1 [1.0]		
ENDOCRINE SYSTEM						
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)	
Accessory Adrenal Cortical Nodule	6 [3.0]	9 [3.0]	10 [3.0]	6 [3.0]	8 [3.0]	
Angiectasis	1 [4.0]	1 [3.0]				
Degeneration, Fatty	12 [2.1]	12 [2.1]	17 [1.8]	14 [2.1]	20 [2.0]	
Hyperplasia, Focal	2 [2.0]	6 [1.7]	8 [1.5]	12 [1.7]	6 [1.3]	
Hypertrophy	1 [2.0]					
Hypertrophy, Focal	4 [1.5]	4 [1.3]	6 [1.5]	1 [2.0]	7 [1.7]	
Necrosis	3 [2.3]			2 [3.0]		
Adrenal Medulla	(49)	(50)	(49)	(50)	(50)	
Hyperplasia	2 [1.0]	3 [2.3]	1 [1.0]	2 [1.0]	2 [1.0]	
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)	
Hyperplasia			1 [2.0]			
Parathyroid Gland	(46)	(47)	(47)	(45)	(47)	
Hyperplasia		1 [2.0]			1 [2.0]	
Pituitary Gland	(50)	(50)	(50)	(50)	(49)	
Pars Distalis, Angiectasis	11 [3.1]	6 [2.3]	7 [2.9]	4 [2.3]	3 [2.7]	
Pars Distalis, Cyst	18 [3.0]	18 [3.0]	18 [3.0]	18 [3.0]	27 [3.0]	
Pars Distalis, Cytoplasmic Alteration, Focal				1 [1.0]		
Pars Distalis, Hyperplasia					1 [3.0]	
Pars Distalis, Hyperplasia, Focal	9 [2.4]	8 [2.0]	9 [2.1]	8 [2.4]	10 [2.0]	
Pars Intermedia, Angiectasis	1 [2.0]	2 [2.5]	- []	- [-··]	[1	
Pars Intermedia, Cyst	1 [3.0]	3 [3.0]	1 [3.0]	1 [3.0]	3 [3.0]	
Thyroid Gland	(50)	(50)	(50)	(50)	(50)	
Ultimobranchial Cyst	(30)	(30)	2 [3.0]	(30)	2 [3.0]	
C-cell, Hyperplasia	28 [1.6]	28 [1.5]	25 [1.8]	23 [1.5]	16 [1.3]	
Follicle, Cyst	- []	1 [3.0]	- []	- ()	- 1 -1	
GENERAL BODY SYSTEM						
Tissue NOS	(0)	(0)	(0)	(0)	(2)	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
GENITAL SYSTEM						
Clitoral Gland	(50)	(50)	(50)	(50)	(50)	
Cyst	2 [3.0]	,	2 [3.0]	4 [3.0]	1 [3.0]	
Hyperplasia	4 [1.8]	1 [2.0]	2 [2.5]	3 [2.0]	1 [3.0]	
Inflammation				1 [3.0]		
Inflammation, Chronic	3 [2.3]	4 [2.3]	6 [2.3]	8 [2.5]	4 [2.0]	
Ovary	(49)	(50)	(50)	(50)	(50)	
Angiectasis	\ -/	1 [3.0]	\ -/	1 [3.0]	,	
Cyst	9 [3.0]	6 [3.0]	7 [3.0]	10 [3.0]	5 [3.0]	
Uterus	(49)	(50)	(50)	(50)	(50)	
Angiectasis	,	,	()	,	2 [2.5]	
Dilatation		1 [4.0]				
Hemorrhage		1 [4.0]				
Hyperplasia, Cystic	5 [2.6]	5 [1.8]	4 [2.3]	9 [2.2]	5 [2.8]	
Inflammation, Chronic				1 [2.0]		
Vagina	(8)	(12)	(4)	(4)	(10)	
Angiectasis	1 [3.0]					
HEMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(50)	(49)	(50)	(50)	
Hyperplasia	6 [3.0]	8 [2.6]	7 [2.7]	6 [3.0]	9 [2.6]	
Infiltration Cellular, Histiocyte	1 [4.0]	- []	2 [3.0]	- []	- [=]	
Myelofibrosis	. []	1 [4.0]	- []	1 [2.0]	1 [3.0]	
Lymph Node	(8)	(11)	(9)	(4)	(11)	
Hemorrhage	1 [2.0]	` '	\-/	1 [2.0]	,	
Hyperplasia, Lymphoid				1 [2.0]		
Deep Cervical, Hemorrhage	1 [2.0]		1 [3.0]			
Mediastinal, Ectasia		1 [3.0]			2 [3.0]	
Mediastinal, Hemorrhage	3 [2.7]	4 [2.5]	2 [2.5]	3 [2.0]	4 [2.8]	
	2 [2.0]	5 [2.4]	2 [2.0]	1 [2.0]	6 [2.5]	
Mediastinal, Hyperplasia, Lymphoid		4 [2.3]	- •	2 [2.0]	1 [2.0]	
Mediastinal, Hyperplasia, Lymphoid Mediastinal, Pigmentation	1 [4.0]	7 [2.0]			7-1	
Mediastinal, Pigmentation Lymph Node, Mandibular	1 [4.0] (4)	(0)	(3)	(2)	(3)	
Mediastinal, Pigmentation			(3)	(2)	(3) 1 [3.0]	
Mediastinal, Pigmentation Lymph Node, Mandibular		(0)	(3) (50)	(2) (50)		
Mediastinal, Pigmentation Lymph Node, Mandibular Ectasia	(4)				1 [3.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Hyperplasia, Lymphoid			2 [2.0]			
Hyperplasia, Reticulum Cell			1 [3.0]		1 [2.0]	
Infiltration Cellular, Histiocyte	21 [1.7]	18 [1.4]	27 [1.5]	36 [2.0]	42 [2.4]	
Lymph Node, Pancreatic	(29)	(36)	(30)	(34)	(33)	
Hemorrhage	3 [2.3]		2 [2.0]		4 [1.5]	
Hyperplasia, Lymphoid	47 [2.0]	20.14.01	12 (2 (2	10 01 00	2 [2.5]	
Infiltration Cellular, Histiocyte Pigmentation	17 [2.0]	20 [1.9]	23 [2.6]	32 [2.8]	27 [3.0] 1 [3.0]	
Spleen	2 [3.0] (50)	(50)	(50)	(50)	(50)	
Accessory Spleen	(30)	(30)	(50)	(50)	(30)	
Fibrosis		2 [3.0]	I		'	
Hematopoietic Cell Proliferation	36 [2.2]	28 [2.3]	38 [2.1]	36 [2.2]	33 [2.0]	
Hemorrhage	00 [2.2]	20 [2.0]	1 [4.0]	00 [2.2]	1 [3.0]	
Infiltration Cellular, Mixed Cell			3 [4.0]		. [0.0]	
Necrosis		3 [3.0]	1 [4.0]	1 [3.0]	2 [3.5]	
Pigmentation	26 [3.0]	23 [2.7]	13 [2.3]	6 [2.2]	3 [3.0]	
Lymphoid Follicle, Atrophy				1 [3.0]	4 [2.8]	
Lymphoid Follicle, Hyperplasia			1 [2.0]		3 [2.7]	
Thymus	(50)	(49)	(49)	(48)	(47)	
Atrophy					3 [3.0]	
INTEGUMENTARY SYSTEM						
Mammary Gland	(50)	(50)	(50)	(50)	(50)	
Hyperplasia	47 [3.2]	50 [2.8]	45 [2.9]	49 [2.7]	4À [2.7]	
Skin	(50)	(50)	(50)	(50)	(50)	
Cyst Epithelial Inclusion	1			1		
Edema		1 [2.0]				
Hyperkeratosis			1 [3.0]			
Ulcer			1 [2.0]			
MUSCULOSKELETAL SYSTEM						
Bone	(50)	(50)	(50)	(50)	(50)	
Cranium, Osteopetrosis	(/	(/	1 [3.0]	1 [2.0]	2 [2.0]	
•						

NERVOUS SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Lab: SRI

Date Report Regsted: 10/04/2007

Time Report Reqsted: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02

Species/Strain: RATS/F 344

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Brain	(50)	(50)	(50)	(50)	(50)	
Compression Gliosis	8 [3.1]	13 [3.4]	15 [3.5]	11 [3.4]	7 [2.9] 1 [1.0]	
Hemorrhage Hydrocephalus	1 [2.0]	3 [1.3]	2 [2.5]	1 [2.0] 2 [3.0]		
Necrosis			2 [2.0]	2 [0.0]	1 [2.0]	
Vacuolization Cytoplasmic					1 [2.0]	
RESPIRATORY SYSTEM						
Larynx	(0)	(0)	(0)	(1)	(1)	
Lung Edema	(50)	(50)	(50) 1 [3.0]	(50)	(50)	
Foreign Body			1		1	
Hemorrhage	2 [1.5]	4 [1.3]	4 [1.8]	1 [1.0]	2 [1.0]	
Infiltration Cellular, Histiocyte	45 [1.4]	48 [1.4]	42 [1.4]	46 [1.3]	47 [1.5]	
Inflammation, Chronic Alveolar Epithelium, Hyperplasia	2 [1.5] 11 [1.6]	1 [2.0]	3 [1.7] 12 [1.7]	0.14.61	1 [3.0] 10 [2.0]	
Alveolar Epithelium, Metaplasia,	11 [1.0]	7 [1.6]	12 [1.7]	9 [1.6]	10 [2.0] 1 [2.0]	
Squamous						
Nose	(50)	(50)	(50)	(50)	(50)	
Foreign Body	3	1	1	1	3	
Inflammation, Chronic Nasolacrimal Duct, Cyst	3 [1.3]	2 [1.5] 1 [3.0]		3 [1.3]	3 [2.0]	
Respiratory Epithelium, Hyperplasia	1 [1.0]	1 [2.0]	1 [1.0]	1 [2.0]	2 [1.0]	
SPECIAL SENSES SYSTEM						
Eye	(50)	(50)	(50)	(50)	(50)	
Cataract	2 [3.0]	2 [2.0]	4 [3.0]	1 [3.0]	1 [4.0]	
Inflammation, Chronic	4 [0 0]	0 [0 5]	0.[4.0]	0 [0 5]	3 [4.0]	
Retina, Degeneration Harderian Gland	4 [2.8] (50)	2 [3.5] (50)	3 [4.0] (50)	2 [2.5] (50)	2 [3.0] (50)	
Hemorrhage	(30)	(30)	(50)	(50)	1 [4.0]	
Inflammation, Chronic				1 [3.0]	. []	
Zymbal's Gland	(1)	(0)	(0)	(0)	(1)	
Zymbar 3 Olana	(1)	(0)	(0)	(0)	(1)	

URINARY SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Kidney	(50)	(50)	(50)	(50)	(50)	
Cyst	()	()	(/	1 [3.0]	2 [3.0]	
Glomerulosclerosis				1 [1.0]	11	
Hydronephrosis				1 [1.0]		
Infarct	3 [3.0]	1 [3.0]	1 [3.0]	1 [4.0]	4 [2.3]	
Inflammation, Chronic	2 [2.0]	1 [2.0]	1 [2.0]		1 [3.0]	
Nephropathy	33 [1.1]	23 [1.1]	32 [1.4]	37 [1.2]	41 [1.2]	
Renal Tubule, Accumulation, Hyaline Droplet	7 [3.0]	4 [3.0]	2 [2.5]	2 [2.5]		
Renal Tubule, Dilatation				1 [3.0]		
Renal Tubule, Necrosis	3 [3.0]	2 [3.0]				
Renal Tubule, Pigmentation	2 [2.0]	1 [3.0]	1 [4.0]		2 [2.0]	
Transitional Epithelium, Hyperplasia	3 [2.3]	2 [2.0]	2 [2.5]		1 [2.0]	
Urinary Bladder	(49)	(50)	(50)	(50)	(49)	
Hemorrhage	• •	•	1 [4.0]	` ,	` ,	

^{***} END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)